

WHAT IS CLAIMED IS:

Sh B1  
1. A signal processing device adapted to receive as input a first coded file containing one or more than one first code streams and header information and also a second coded file containing code streams of an encoded moving picture having a plurality of frames and meta data added thereto, said device comprising :

a file analyzing means for reading the leading first code stream in the first coded file and discarding or disregarding all the first code streams in the first coded file other than the leading code stream; and

a decoding means for decoding the leading code stream in said first coded file as read out by said file analyzing means.

2. The signal processing device according to claim 1, wherein said first coded file is a file in the file format conforming to JPEG 2000 and said second coded file is a file in the file format conforming to Motion-JPEG 2000.

3. The signal processing device according to claim 1, wherein said file analyzing means is adapted to decode said code stream of the encoded moving picture having a plurality of frames and transmits the code stream of each frame to said decoding means.

Sh B2  
4. The signal processing device according to claim 1, further comprising:  
a system control means for controlling the decoding operation and the output of said decoding means;  
said file analyzing means being adapted to analyze the meta data of said

plurality of frames and send them to said system control means;

said system control means being adapted to control the operation of said decoding means of decoding and outputting said code stream of the encoded moving picture having a plurality of frames and display the decoded moving picture in a synchronized manner.

5. The signal processing device according to claim 4, further comprising:

a sound decoding means for decoding a code stream of encoded sounds;

said second coded file containing a code stream of encoded sounds;

said system control means being adapted to so control said decoding means and said sound decoding means as to synchronize the decoded moving picture having a plurality of frames from said decoding means and the sounds decoded by said sound decoding means.

6. The signal processing device according to claim 2, wherein said file analyzing means either detects the SOC (start of code) code indicating the start of the next code conforming to the JPEG 2000 Standard or terminates the current decoding operation when there does not exist any EOC (end of code) code indicating the end of a code conforming to the JPEG 2000 Standard in one of the frames of the code stream of an encoded moving picture as analyzed by the file analyzer.

7. A signal processing method adapted to decode a first coded file containing one or more than one first code streams and header information and also a second coded file containing code streams of an encoded moving picture having a

plurality of frames and meta data added thereto, said method comprising :

*copy*  
a file analyzing step for reading the leading first code stream in the first coded file and discarding or disregarding all the first code streams in the first coded file other than the leading code stream; and

a decoding step for decoding the leading code stream in said first coded file as read out in said file analyzing step.

8. The signal processing method according to claim 7, wherein said first coded file is a file in the file format conforming to JPEG 2000 and said second coded file is a file in the file format conforming to Motion-JPEG 2000.

9. A file generating method comprising:

a step of coding pictures including a plurality of frames according to a first coding standard and generating first code streams;

a still image extracting step of extracting only the code stream of a desired frame out of the first code streams;

a moving image extracting step of extracting the code streams of all or part of the plurality of frames of said first code streams;

a step of generating meta data relating to the code streams of the plurality of frames extracted in said moving image extracting step; and

a step of generating a second coded file by combining all the first code streams and the meta data.

10. The file generating method according to claim 9, wherein said first coded

file is a file in the file format conforming to JPEG 2000 and said second coded file is a file in the file format conforming to Motion-JPEG 2000.

11. The file generating method according to claim 9, wherein the code stream extracted in said still image extracting step is the leading frame of all the frames of the code stream extracted in said moving image extracting step.

12. The file generating method according to claim 9, wherein said code stream extracted in said still image extracting step is the most characteristic code stream of the code stream extracted in said moving image extracting step and specified by externally input information.

13. The file generating method according to claim 9, wherein said code stream extracted in said still image extracting step is that of a frame of the code stream extracted in said moving image extracting step.

14. The file generating method according to claim 9, wherein said code stream extracted in said still image extracting step is independent of the code stream extracted in said moving image extracting step.

15. The file generating method according to claim 10, wherein said code stream extracted in said moving image extracting step starts with an SOC (start of code) code and ends with an EOC (end of code) code as defined in the JPEG 2000 Standard.